

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1. (Previously presented) An anti-squeal shim structure comprising: an aluminum alloy plate having compressive strength and heat resistance as in JIS 1085, 1080, 1070, 1050, 1100, 1200, IN00, IN30, 2014, 2017, 2219, 2024, 3003, 3203, 3004, 3104, 3005, 3105, 5005, 5052, 5652, 5154, 5254, 5454, 5082, 5182, 5083, 5086, 5N01, 6061, 7075 or 7N01, and a rubber layer provided at least on one side of the aluminum alloy plate.

2. (Previously presented) A disc brake apparatus comprising: an aluminum caliper, a disc brake portion mounted in the interior thereof, an anti-squeal shim structure, wherein said anti-squeal shim structure comprises an aluminum alloy plate and a rubber layer provided at least on one side of the aluminum alloy plate, wherein the aluminum alloy plate has little difference in electrode potential than the aluminum caliper so that corrosion due to a difference in electrode potential is minimized.

3. (Currently amended) The disc brake apparatus according to Claim 2, wherein said aluminum alloy plate has a compressive strength and heat resistance as in JIS 1085, 1080, 1070, 1050, 1100, 1200, IN00, IN30, 2014, 2017, 2219, 2024, 3003, 3203, 3004, 3104, 3005, 3105, 5005, 5052, 5652, 5154, 5254, 5454, 5082, 5182, 5083, 5086, 5N01, 6061, 7075 or 7N01.

4-7. (Cancelled)

8. (Currently amended) A disc brake apparatus comprising:

an aluminum caliper;

a disc brake pad comprising:

a friction material; and

a metal backing plate;

an anti-squeal shim structure comprising:

an aluminum alloy plate, said aluminum alloy plate having ~~greater heat resistance and compressive strength than an aluminum plate~~ a compressive strength and heat resistance as in JIS 1085, 1080, 1070, 1050, 1100, 1200, IN00, IN30, 2014, 2017, 2219, 2024, 3003, 3203, 3004, 3104, 3005, 3105, 5005, 5052, 5652, 5154, 5254, 5454, 5082, 5182, 5083, 5086, 5N01, 6061, 7075 or 7N01; and

a rubber layer;

a piston for contacting the shim structure; and

a disc rotor adjacent said disc brake pad,

wherein the aluminum alloy plate of said anti-squeal shim structure and said aluminum caliper have little difference in electrode potential so that corrosion of said caliper due to a difference in electrode potential is minimized.

9. (Cancelled)

10. (Currently amended) The brake apparatus according to Claim 98, wherein said rubber layer of said anti-squeal shim comprises ~~NBR~~ nitrile-butadiene rubber, fluoride rubber or silicone rubber.

11. (Currently amended) The brake apparatus according to Claim 98, said rubber layer comprising a first rubber layer, said anti-squeal shim structure including a second rubber layer, said first and second rubber layers being on opposing sides of said aluminum alloy plate.

12. (Currently amended) The brake apparatus according to Claim 98, said anti-squeal shim structure including a bonding layer, said bonding layer and said rubber layer being on opposing sides of said aluminum alloy plate, wherein said bonding layer is positioned between the backing plate of the disc pad and the aluminum alloy plate to form a damping structure.

13-14. (Cancelled)